

ABSTRACT OF THE DISCLOSURE

In a preferred embodiment, a stabilized scintillation detector, including: an LED that periodically produces a light pulse; a beam splitter that impinges some of the light pulse on a photodetector and on a photomultiplier; a scintillator that receives radiation and is coupled to the photomultiplier; and a control unit that receives signals from the photodetector and the photomultiplier representative of the light pulse received by the photodetector and the photomultiplier and receives a signal representative of temperature of the scintillator and outputs, in part, a signal to the photomultiplier to stabilize the photomultiplier. A method of using the scintillator is also provided.